

Mika Jokinen, DSc  
Research Director, Adjunct Professor

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## PERSONAL INFORMATION

Mika Juhani Jokinen, b. 30<sup>th</sup> September 1965 (Turku, Finland)

## EDUCATION, THESES & DEGREES

Master of Science in Technology (Chemical Engineering; Industrial Chemistry) Sept. 1993  
Master's Thesis, "Reactions of n-Butane on ZSM-5 Catalysts, Åbo Akademi University, Faculty of Chemical Engineering, Laboratory of Industrial Chemistry, 1993.

Licentiate of Technology (Chemical Engineering; Physical Chemistry) April 1998  
Licentiate Thesis, "Colloidal Structures of Sol-Gel Derived Bioceramics", Åbo Akademi University, Department of Physical Chemistry, 1998.

Doctor of Science in Technology (Chemical Engineering; Physical Chemistry) June 1999  
Doctoral Thesis, "Bioceramics by Sol-Gel Method: Processing and Properties of Monoliths, Films and Fibres", Åbo Akademi University, Department of Physical Chemistry, 1999.

Adjunct Professor (Medical Biomaterials), February 2003  
Åbo Akademi University, Faculty of Chemical Engineering & Department of Physical Chemistry

## WORKING EXPERIENCE & MAIN TASKS

## CURRENT POSITIONS

- DeSiTech Ltd since 1/2006
  - Research Director
- Åbo Akademi University since 2/2003
  - Adjunct Professor (Medical Biomaterials)

## EARLIER POSITIONS AT UNIVERSITIES

12/1992-06/1993 & 09/1993-03/1994: Åbo Akademi University, Lab. of Industrial Chemistry  
- Research assistant (development of nanoporous aluminium silicate-based catalysts (ZSM) for alkane and NO<sub>x</sub> conversion) and hour-based teacher

04/1994-08/1999: Åbo Akademi University, Department of Physical Chemistry  
- Researcher & PhD student (development of sol-gel derived SiO<sub>2</sub>- & TiO<sub>2</sub>-based biomaterials)

- 06/1999-12/2005: University of Turku, Department of Prosthetic Dentistry and Biomaterials Research & Turku Biomaterials Centre

- Research Scientist 06/1999 - 06/2000

- Senior Scientist 07/2000-12/2005

- Research on bioceramics ( $\text{SiO}_2$ ,  $\text{TiO}_2$ , bioactive glass) & bioceramic-polymer composites for tissue repair applications, drug delivery and gene therapy
- Research instructor/supervisor for 5 PhD Students and 2 other postgraduate researchers:
  - Niko Moritz (11.11.2005), Marja Valkiorta (9.12.2005) and Reeta Viitala (16.12.2005) already defended their theses and received their PhD
- Research coordinator / responsible leader in several (>10) TEKES (National Technology and Innovation Agency of Finland)-funded, large interdisciplinary projects on biomaterials (bioceramics, polymer-bioceramic composites, drug & gene delivery)
- Member of a Center of Excellence Research Group (Academy of Finland): Bio- and Nanopolymer 01/2002-12/2005: bioactive composites of polymers and bioceramics & nanoscale modification of biomaterial surfaces.

**EARLIER POSITIONS IN COMPANIES & COMPANY-financed PROJECTS**

Turun Eko-Vest Oy Ltd: 08/1994-02/1996:

- Part-time project engineer (water purification by electroflotation technique)

Bioxid Oy Ltd / DelSiTech Ltd: 03/2001-09/2002 + occasionally 9/2002-8/2004:

- Part-time Research Instructor ( $\text{SiO}_2$ -based biomaterials in delivery of biologically active agents (small drug molecules, proteins))

08/2004-12/2005 — Firm-financed project (DelSiTech Ltd), Turku Biomaterials Centre

- Part-time (25%) Research Instructor ( $\text{SiO}_2$ -based biomaterials in delivery of viruses for gene therapy & encapsulation of polymeric nanoparticles in  $\text{SiO}_2$ )

10/2005-12/2005 — Firm-financed project (StickTech Ltd), Turku Biomaterials Centre

- Hour-based consultation: evaluation of scientific results on fiber-reinforced composites for dental applications & recommendation for future actions

**SCIENTIFIC PUBLICATION SUMMARY (updated June, 2007)**

*(Publications on silica & other (bio)ceramics, sol-gel technology and biomaterials):*

- International papers with referee-practice (peer-reviewed): 25 published/in press, 1 submitted
- International Letter- & Proceedings -type publications: 13 published (9 full paper-refereed)
- Patents/ Patent Applications: 8
- Abstracts in International Conferences (35 of which 22 published as abstracts and 13 as proceedings papers as indicated above): 22

Subtotal: 69

- Other publications: 21 (abstracts/short papers in domestic seminars in Finland)

Total: 90